

CLAIMS

1. A torsion bar for application in belt winders for safety belts, provided on end sections thereof with drive and/or locking elements for positive connection to respective devices, characterized in that the torsion bar (1) including the drive and/or locking elements (2, 3) embodied at the ends thereof for achieving different torques at constant sizes of the drive and/or locking elements (2, 3) and varying diameters of the torsion bar (1) is produced in one piece in a cold forming process from a non-ferrous metal, using impact extrusion.
2. A torsion bar according to claim 1, characterized in that the drive and/or locking elements (2, 3) embodied at the ends thereof have equal or larger exterior dimensions than the torsion bar (1) itself.
3. A torsion bar according to claims 1 or 2, characterized in that the torsion bar (1) is made from aluminum in a cold forming process.
4. A torsion bar according to claim 1, characterized in that aluminum is used with up to 99.5 % by Vol. purity.
5. A torsion bar according to claims 1 through 4, characterized in that the torsion bar (1) is constructed cylindrical or prismatic.
6. A torsion bar according to one of claims 1 through 5, characterized in that the drive and/or locking elements (2, 3) are provided as toothed wheels or as catching elements provided with flattenings.
7. A torsion bar according to one of claims 1 through 6, characterized in that a transfer section (4) is provided in the form of a conical section or a flute between the drive and/or the locking elements (2, 3).